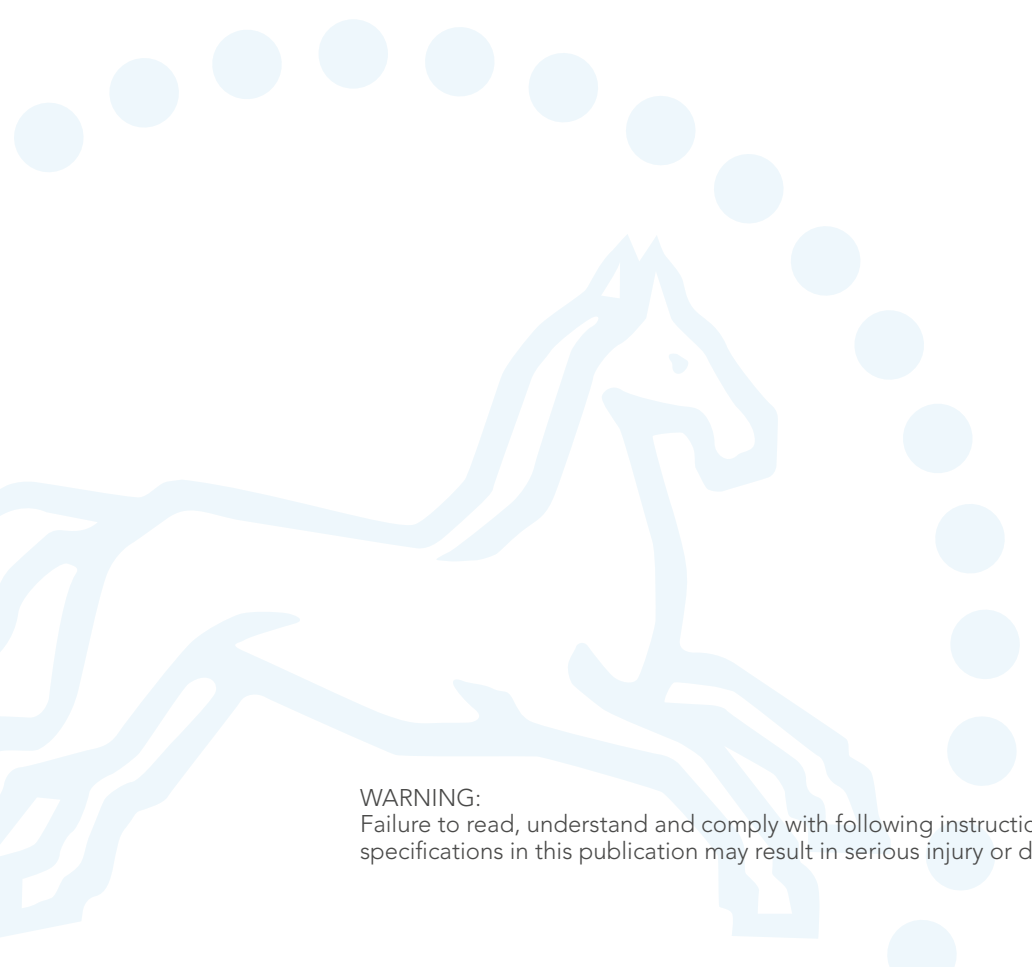


Polyester Lifting

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WARNING:
Failure to read, understand and comply with following instructions, working load limits and specifications in this publication may result in serious injury or damage to property.



Roundsling, Single Cover

EN 1492-2

Max WLL: 1–12 tonnes.

Roundsling with seamless single cover and protected label, made of 100% high tensile polyester, close-woven sealed material for high wear resistance.

CE-marked

Safety factor 7:1

Roundsling for safe lifting - marked with Gunnebo Lifting manufacturer ID.



Eff. length	WLL 1 tonnes		WLL 2 tonnes		WLL 3 tonnes		WLL 4 tonnes		WLL 5 tonnes	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
0.5	M57P101	0.2	M57P201	0.3	M57P301	0.4				
1	M57P102	0.4	M57P202	0.5	M57P302	0.6	M57P402	0.8	M57P502	1.0
1,5	M57P103	0.5	M57P203	0.7	M57P303	1.1	M57P403	1.2	M57P503	1.4
2	M57P104	0.7	M57P204	1.1	M57P304	1.3	M57P404	1.6	M57P504	1.9
2.5	M57P105	0.7	M57P205	1.7	M57P305	1.4	M57P405	2.0	M57P505	2.3
3	M57P106	1.0	M57P206	1.5	M57P306	1.8	M57P406	2,3	M57P506	2.7
4	M57P108	1.4	M57P208	2.0	M57P308	2.6	M57P408	3.1	M57P508	3.6
5	M57P110	1.9	M57P210	2.5	M57P310	3.2	M57P410	3.9	M57P510	4.4
6	M57P112	2.4	M57P212	2.8	M57P312	3.9	M57P412	4.7	M57P512	5.3

Eff. length	WLL 6 tonnes		WLL 8 tonnes		WLL 10 tonnes		WLL 12 tonnes	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
2	M57P604	2.3	M57P804	3.1	M571004	3.9	M571204	4.9
2.5	M57P605	3.4	M57P805	3.8	M571005	4.8	-	
3	M57P606	3.4	M57P806	4.5	M571006	5.8	-	
4	M57P608	4.6	M57P808	6.0	M571008	7.7	M571208	9.6
5	M57P610	5.7	M57P810	7.5	M571010	9.6	M571210	12
6	M57P612	6.8	M57P812	9.0	M571012	11.4	M571212	14.2
7	-	-	-	-	M571014	13.2	-	
8	-	-	-	-	M571016	15.1	M571216	18.8

Other sizes can be produced upon request.

Roundsling, Double Cover

EN 1492-2

WLL: 15–30 tonnes

Roundsling with side seam, double cover, made of 100% high-tensile polyester, close-woven sealed material for high wear resistance

CE-marked

Safety factor 7:1

Roundsling for safe lifting marked with Gunnebo Lifting manufacturer ID



Eff. length	WLL 15 tonnes		WLL 20 tonnes		WLL 25 tonnes		WLL 30 tonnes	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
2	M471504	6.8	-			-	-	
2.5	M471505	8.5	-			-	-	
3	M471506	10.2	M472006	15		-	-	
4	M471508	13.5	M472008	20	M472508	25.2	M473008	32
5	M471510	16.9	M472010	24.9	M472510	31.5	M473010	38.7
6	M471512	20.2	M472012	29.8	M472512	37.7	M473012	46.4

Webbing Sling Duplex with sleeved eyes

EN 1492-1

WLL: 1 – 15 tonnes.

Flat webbing slings with eyes, made of 100% high-tensile polyester, close woven sealed material for high wear resistance.

According to standard specifications.

Webbing sling for safe lifting - marked with Gunnebo Industries manufacturer ID.



Eff. length m	WLL 1 tonnes Web. width 30 mm		WLL 2 tonnes Web. width 60 mm		WLL 3 tonnes Web. width 90 mm	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
1	M37P101	0.3	M37P201	0.6	-	
2	M37P102	0.5	M37P202	1.0	M37P302	1.4
3	M37P103	0.7	M37P203	1.3	M37P303	2.0
4	M37P104	0.9	M37P204	1.7	M37P304	2.5
5	M37P105	1.0	M37P205	2.0	M37P305	3.1
6	M37P106	1.3	M37P206	2.4	M37P306	3.6
8	M37P108	1.4	M37P208	2.8	M37P308	4.6
10	M37P110	1.8	M37P210	3.7	M37P310	5.7
12	M37P112	2.1	M37P212	4.8	M37P312	6.1

Eff. length m	WLL 4 tonnes Web. width 120 mm		WLL 5 tonnes Web. width 150 mm		WLL 6 tonnes Web. width 180 mm		WLL 8 tonnes Web. width 240 mm	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
6	M37P406	5.1	M033506	6.7	M033606	6.7	M033806	9.1
8	M37P408	6.7	M033508	8.9	M033608	8.8	M033808	11.7
10	M37P410	8.4	M033510	11.0	M033610	10.8	M033810	14.5
12	M37P412	9.7	M033512	13.1	M033612	12.9	M033812	17.3

Other sizes can be produced upon request

Webbing sling - Endless

EN 1492-1

WLL: 1–4 Tonnes.

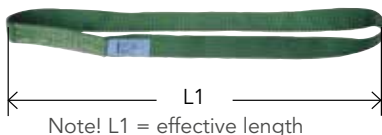
Flat webbing endless sling made of 100% high-tensile polyester, close-woven sealed material for high wear resistance.

CE-marked.

Webbing sling for safe lifting - marked with Gunnebo Industries manufacturer ID.



Eff. length	WLL 1 tonnes Webb. width 30 mm		WLL 2 tonnes Webb. width 60 mm		WLL 3 tonnes Webb. width 90 mm	
	Art. no.	Weight kgs	Art. no.	Weight kgs	Art. no.	Weight kgs
1	M30P102	0.2	M30P202	0.4	M030030	0.7
1.5	M30P103	0.3	M30P203	0.6	M30P303	0.9
2	M30P104	0.4	M30P204	0.8	M30P304	1.2
2.5	M30P105	0.5	M30P205	1.0	M30P305	1.5
3	M30P106	0.6	M30P206	1.2	M30P306	1.7
4	M30P108	0.7	M30P208	1.5	M30P308	2.3
5	-	0.9	M30P210	1.9	M30P310	2.2
6	M030009	1.1	M30P212	2.3	M30P312	3.4



Other sizes can be produced upon request.

Polyurethane Protective Sleeves - Stobitex

Protective sleeves for roundslings and flat webbing slings, made of polyurethane on three sides, the fourth side is made of white polyester. Other sizes can be supplied upon request.

Art. no.	Inside measurement width x depth	For webbing width	Length	Suits
G005990559	35 x 12 mm	30 mm	1000 mm	Web. sling 1 tonnes
G005990560	35 x 12 mm	30 mm	2000 mm	Web. sling 1 tonnes
G005990561	70 x 12 mm	60 mm	1000 mm	Web. sling 2 tonnes
G005990562	70 x 12 mm	60 mm	2000 mm	Roundsling 1 tonnes
G005990563	100 x 12 mm	90 mm	1000 mm	Web. sling. 3 tonnes
G005990564	100 x 12 mm	90 mm	2000 mm	Roundsling 4 tonnes
G005990565	135 x 12 mm	120 mm	1000 mm	Web. sling 3 tonnes
G005990566	135 x 12 mm	120 mm	2000 mm	Roundsling 5 tonnes
G005990567	160 x 12 mm	150 mm	1000 mm	Web. sling 4 tonnes
G005990568	160 x 12 mm	150 mm	2000 mm	Roundsling 5/6/8 tonnes

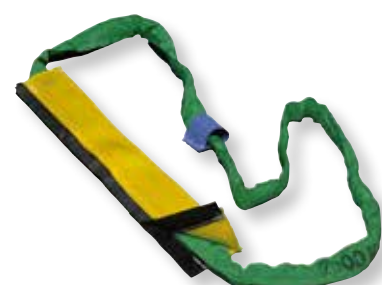


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Protective Sleeve for Roundslings

Protective sleeve made of polyester for fitting on roundslings. Velcro for easy attachment, no sewing necessary.

Art. no.	Roundsling (t)	Length
M040124	1 - 3	500
M040125	4 - 8	500
M040126	1 - 3	1000
M040127	4 - 8	1000



Other sizes can be supplied upon request.

Recommended Contact Surface for Polyester Roundslings 7:1

Tonnes	Min. diameter bolt	Min. free contact width
1	23	35
2	32	40
3	35	47
4	38	50
5	42	53
6	46	60
8	50	67
10	56	75
12	58	80
15	70	96
20	78	104
25	84	112
30	90	120
35	96	128
40	102	136
50	120	160

Smaller diameter connections and insufficient free contact width, may adversely affect lifting safely and cause serious damage to the roundslings.

Polyester Lifting Information

When using the sling for the first time, read the manufacturers certificate and instructions/education.

1. Always plan the lift carefully before proceeding with the operation.
2. Always check that the length and WLL stated on the sling label are suitable for the intended use.
3. Examine the sling for damage and defects before use. Never use a damaged or defective sling.
4. Never overload!
5. Make sure that the load is lifted vertically, centred above the point of gravity.
6. Use identical slings in case of multi- legged lifting and take the lifting angles into account when choosing equipment.
7. Do not tie knots on the slings to shorten or join them.
8. Never lift with twisted or entwined slings.
9. Place load-bearing seams and joints between the hook and the load.
10. Protect the sling from sharp edges using edge protection or protective sleeves.
11. Avoid shock loading and snatch lifting.
12. Do not drag the sling, with or without load, on the ground.
13. Keep polyester slings away from alkalis (for example ammonia and caustic soda). If in doubt about exposure to chemicals, check with your supplier.
14. Do not use polyester slings in temperatures over +100°C.
15. Examine slings after use and remove from service if visible damage is discovered.
16. Do not stand under the suspended load or between load and other objects in proximity, to avoid being injured from falling or moving load.
17. To avoid injuries, keep hands, feet and body away from sling, when lifting.

Maintenance




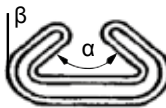
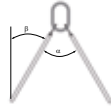


1. Store the equipment in a dry place.
2. Ensure that seams and labelling are undamaged.
3. The equipment can be cleaned by washing in a petroleum-based detergent and rinsing in water.
4. Roundslings with damaged sleeving, allowing dirt to enter, should be discarded.
5. Roundslings with broken yarns as a result of damaged sleeving must be discarded.
6. Roundslings must be inspected regularly for knots and irregularities, indicating yarn breakage. Discard if found.
7. Webbing slings: Discard in case of serious damage due to friction or wear and tear (appears like a blank and hard or "hair-like" surface).
8. Webbing slings: Discard if/when edge wear/ damage exceeds 5% of its width.
9. Webbing slings: Repair or discard when eye sleeving is worn out.
10. Slings must be regularly inspected, according to local statutory requirements. Records of inspections must be maintained.

Resistance against acids

Acids	Strength	Temp.	Processing time	Observed strength loss ca (%)
Acetic acid	Glacial acetic acid	80°C	72 hours	5
Formic acid	90%	80°C	72 hours	10
Oxalic acid	Saturated solution	80°C	72 hours	15
Hydrofluoric acid	40%	25°C	1 week	0
Hydrobromic acid	40%	30°C	4 weeks	5
Boric acid	15%	30°C	4 weeks	20
Phosphoric acid	98%	70°C	5 weeks	45
Phosphoric acid	50%	70°C	5 weeks	15
Uric acid	Saturated solution	70°C	4 months	0
Hydrogen cyanide	Moist gas	22°C	4 months	0

The strength properties of the Polyester are affected by alkalis, the effect is depending on temperature and time. At low concentrations and normal temperature resistance are good.

Working Load Limits (tonnes)

	Straight lift	Choked lift	Straight basket hitch			Two part choker		Three and four part choker	
									
			Parallel	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°	β 0-45° α 0-90°	β 45-60° α 90-120°
Cover colour	Working Load Limits								
	1	0.8	2	1.4	1	1.4	1	2.1	1.5
Purple	1	0.8	2	1.4	1	1.4	1	2.1	1.5
Green	2	1.6	4	2.8	2	2.8	2	4.2	3.0
Yellow	3	2.4	6	4.2	3	4.2	3	6.3	4.5
Grey	4	3.2	8	5.6	4	5.6	4	8.4	6.0
Red	5	4.0	10	7.0	5	7.0	5	10.5	7.5
Brown	6	4.8	12	8.4	6	8.4	6	12.6	9.0
Blue	8	6.4	16	11.2	8	11.2	8	16.8	12.0
Orange	10	8.0	20	14.0	10	14.0	10	21.0	15.0
Orange	12	9.6	24	16.8	12	16.8	12	25.0	18.0
Orange	15	12.0	30	21.0	15	21.0	15	31.5	22.5
Orange	20	16.0	40	28.0	20	28.0	20	42.0	30.0
Orange	25	20.0	50	35.0	25	35.0	25	52.5	37.5
Orange	30	24.0	60	42.0	30	42.0	30	63.0	45.0
Orange	35	28.0	70	49.0	35	49.0	35	73.5	52.5
Orange	40	32.0	80	56.0	40	56.0	40	84.0	60.0
Orange	50	40.0	100	70.0	50	70.0	50	105.0	75.0
Orange	60	48.0	120	84.0	60	84.0	60	126.0	90.0

Properties of polyester fibre

Physical properties

Specific weight: ca 1.38

Melting point: 260°C

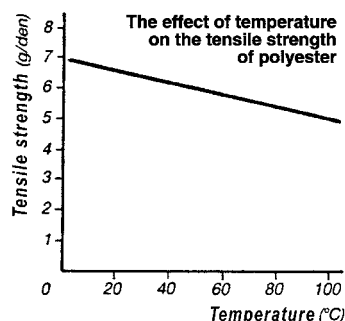
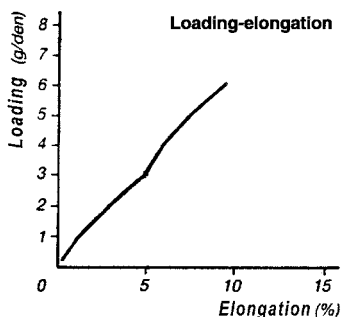
Sensitivity to low temperature: No effect down to -40°C

Aging: Very low



L1 = Effective length

Examples of the properties of polyester fibre



Elongation properties webbing

Polyester webbing has an elongation to break of approximately 15-20%. The first time a webbing lashing or lifting assembly is loaded, it can elongate slightly when the fibres settle.

Chemical properties

Polyester offers good resistance to most acids provided the concentration does not exceed 50%.

Lashing & Transport

Chain Tensioner • Lashing Straps • Other Lashing Products



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